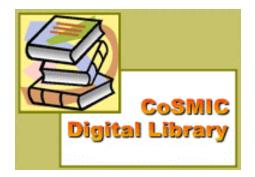
International Materials Institute: Combinatorial Sciences and Materials Informatics Collaboratory (CoSMIC)

RPI, U. of Maryland, Florida International U.

DMR -0231291

- Promotes the use of informatics and experimentation for materials discovery and design
- International consortium of universities and laboratories (Europe, Japan, Canada, South America)
- Operates through a cyber-infrastructure for global collaboration among researchers and educators

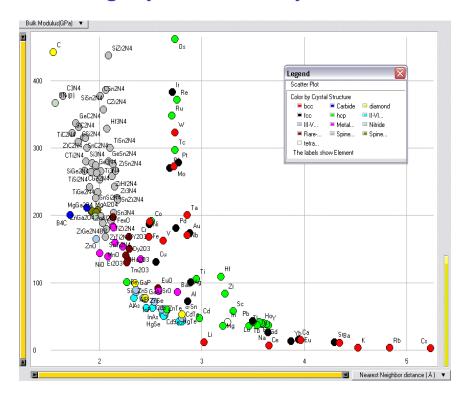


Data + Correlations + Theory = Knowledge-base

Research and Education on Crystallographic Databases

A materials prediction map for tailoring crystal chemistry to modulus

Visualizing the mathematics of space groups used in crystallography



• informatics-derived database of crystal structure- modulus relationships allows for quick identification of promising materials • web-based module for teaching the methodology of reading and organizing crystallographic space group tables